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PROPOSED AMENDMENTS TO THE CLAIMS

Claims 1-27: (Cancelled)

28. (~~Previously presented~~cancelled) Butene-1 copolymers comprising a content up to 40% by mol of at least one comonomer, the comonomer being selected from ethylene, propylene, or mixtures thereof, the butene-1 copolymers further comprising:

- a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 1.5$;
- b) a content of butene-1 units in form of isotactic pentads (mmmm) > 98.5%; and
- c) an absence of 4,1 insertions of butene units.

29. (~~Previously presented~~currently amended) The butene-1 copolymers according to claim ~~28~~54, wherein the content of (mmmm) is >99% and the reactivity ratio $r_1 \cdot r_2 \leq 1$.

30. (~~Previously presented~~currently amended) The butene-1 copolymers according to claim ~~28~~54 further comprising a PI ranging from 3-10.

31. (~~Previously presented~~currently amended) The butene-1 copolymers according to claim ~~28~~54, wherein the content of the at least one comonomer ranges from 0.1 to 35% by mol.

32. (~~Previously presented~~currently amended) The butene-1 copolymers according to claim ~~31~~54, wherein the content of the at least one comonomer ranges from 0.5 to 30% by mol.

33. (~~Previously presented~~Currently amended) The butene-1 copolymers according to claim ~~32~~54, wherein the at least one comonomer is ethylene.

34. (~~Previously presented~~Currently amended) The butene-1 copolymers according to claim ~~32~~54, wherein the at least one comonomer is propylene.

35. (~~Previously presented~~Currently amended) The butene-1 copolymers according to claim ~~28~~54, wherein the content of the at least one comonomer is lower than about 3% by mol.

36. (~~Previously presented~~Currently amended) The butene-1 copolymers according to claim ~~32~~54, wherein the content of the at least one comonomer ranges from 2-15% by mol.

37. (~~Previously presented~~Currently amended) The butene-1 copolymers according to claim ~~28~~54, wherein the content of the at least one comonomer is at least 12% by mol.

38. (~~Previously presented~~Currently amended) The butene-1 copolymers according to claim ~~37~~54, wherein the comonomer is ethylene.

39. (~~Previously presented~~Currently amended) The butene-1 copolymers according to claim ~~37~~54, wherein the butene-1 copolymers do not show a melting point at the thermal analysis.

40. (~~Previously presented~~Currently amended) A polymer composition comprising: (A) from 1 to 99wt % of ~~a~~the butene-1 copolymer of claim 54 comprising a content up to 40% by mol of at least one comonomer, the comonomer being selected from ethylene, propylene, or mixtures thereof, the butene-1 copolymers further comprising:

- a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 1.5$;
- b) a content of butene-1 units in form of isotactic pentads (mmmm) > 98.5%; and
- c) an absence of 4,1 insertions of butene units;

and (B) from 1 to 99% of another polymeric component the said percentages being referred to the sum of (A) and (B).

41. (~~Previously presented~~Currently amended) The polymer composition according to claim 40, wherein the component (B) comprises an olefin (co)polymer.

42. (~~Previously presented~~Currently amended) The polymer composition according to claim 40, wherein the component (B) is an ethylene containing (co)polymer, a propylene containing (co)polymer, or mixtures thereof.

43. (~~Previously presented~~Currently amended) A polymer composition comprising:

~~(A) from 5 to 40%wt of the butene-1 copolymers of claim 54 comprising from 1 to 15% by mol of ethylene, propylene, or mixtures thereof, the butene-1 copolymers further comprising:~~

~~(B) a product of the reactivity ratios $r_1 \cdot r_2 \leq 1.5$;~~

~~(C) b) a content of butene-1 units in form of isotactic pentads (mmmm) > 98.5%; and~~

~~(A) c) an absence of 4,1 insertions of butene units; and~~

(B) from 60 to 95%wt of a propylene copolymer comprising from 1 to 30 % by mol of at least one comonomer, the comonomer being selected from ethylene and an α -olefin of formula $\text{CH}_2=\text{CHR}$, wherein R is a $\text{C}_2\text{-C}_{10}$ hydrocarbon group.

44. (~~Previously presented~~Currently amended) The polymer composition according to claim 43, wherein said α -olefin is butene-1.

45. (~~Previously presented~~Currently amended) The polymer composition according to claim 43, wherein the component (B) is selected from either (a) a propylene copolymer comprising both ethylene and butene-1, wherein the content of ethylene is from 1 to 10% by mol and the content of butene-1 is from 1 to 10% by mol, or (b) a propylene copolymer containing from 2 to 15% by mol of butene-1.

46. (~~Currently amended~~cancelled) A polymer composition comprising: (A) a butene-1 copolymer with ethylene comprising a content of ethylene from higher than 10% up to 40% by mol of at least one comonomer, the comonomer being selected from ethylene, propylene, or mixtures thereof, the butene-1 copolymers further comprising:

a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 1.5$;

b) a content of butene-1 units in form of isotactic pentads (mmmm) > 98.5%;

c) an absence of 4,1 insertions of butene units; and

d) not showing a melting point; and

(B) a butene-1 copolymer with ethylene comprising a content of ethylene lower than 10% by mol up to 40% by mol of at least one comonomer, the comonomer being selected from ethylene, propylene, and mixtures thereof, the butene-1 copolymers further comprising:

a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 1.5$;

- b) a content of butene-1 units in form of isotactic pentads (mmmm)> 98.5%;
- c) an absence of 4,1 insertions of butene units; and
- d) showing a melting point.

47. (Canceled)

48. (~~Previously presented~~Currently amended) A polymer composition comprising:

- (i) from 5 to 25% wt of ~~the~~ butene-1 copolymer of claim 54 comprising a content up to 40% by mol of at least one comonomer, the comonomer being selected from ethylene, propylene, or mixtures thereof, the butene-1 copolymers further comprising:
 - a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 1.5$;
 - b) a content of butene-1 units in form of isotactic pentads (mmmm)> 98.5%; and
 - c) an absence of 4,1 insertions of butene units;
- and
- (ii) from 75 to 95%wt of an ethylene polymer; said percentages being based on the sum of (i)+(ii).

49. (~~Previously presented~~Currently amended) Manufactured articles obtained from a composition comprising ~~at least one~~the butene-1 copolymer of claim 54~~comprising a content up to 40% by mol of at least one comonomer, the comonomer being selected from ethylene, propylene, or mixtures thereof, the butene-1 copolymers further comprising:~~

- ~~a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 1.5$;~~
- ~~b) a content of butene-1 units in form of isotactic pentads (mmmm)> 98.5%; and~~
- ~~c) an absence of 4,1 insertions of butene units.~~

50. (Currently amended) A process for preparing butene-1 copolymers comprising a content up to 40% by mol of at least one comonomer, the comonomer being selected from ethylene, propylene, or mixtures thereof, the butene-1 copolymers further comprising:

- a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 1.5$;
- b) a content of butene-1 units in form of isotactic pentads (mmmm)> 98.5%; and

c) an absence of 4,1 insertions of butene units,

the process comprising copolymerizing butene-1 and at least one comonomer, the comonomer being selected from ethylene, propylene, and mixtures thereof, in presence of a stereospecific catalyst comprising (A) a solid catalyst component comprising a Ti compound of formula $Ti(OR)_{n-y}X_y$, where $n=4$; X is a halogen; and y is a number from 1 to n, and an electron-donor compound selected from phthalates, supported on $MgCl_2$; (B) an alkylaluminum compound; and (C) ~~an external electron-donor compound of formula $R^aR^bSi(OR^c)_c$, wherein a=0 and b=1; c is 3; and R^a is a branched alkyl or cycloalkyl group optionally comprising at least one heteroatom; and R^b is methyl~~ a hexyltrimethoxysilane external donor.

51. (Canceled)

52. ~~(Previously presented)~~ Currently amended The process according to claim 50, wherein the process is carried out in liquid butene-1.

53. ~~(Previously presented)~~ Currently amended The process according to claim 52, wherein the process is carried out in at least two reactors working under different reaction conditions.

54. (new) Butene-1 copolymers comprising a content ~~up to~~ from 0.1 40% by mol of at least one comonomer, the comonomer being selected from ethylene, propylene, or mixtures thereof, the butene-1 copolymers further comprising:

- a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 1.5$;
- b) a content of butene-1 units in form of isotactic pentads (mmmm) > 98.5%; and
- c) an absence of 4,1 insertions of butene units,

the butene-1 copolymers being produced by a process comprising copolymerizing butene-1 and the at least one comonomer in the presence of a stereospecific catalyst comprising: (A) a solid catalyst component comprising a Ti compound of formula $Ti(OR)_{n-y}X_y$, where $n=4$; X is a halogen; and y is a number from 1 to n, and an electron-donor compound selected from phthalates, supported on $MgCl_2$; (B) an alkylaluminum compound; and (C) a hexyltrimethoxysilane external donor.

Respectfully submitted,



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